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huangzhichong / selenium-webdriver-cheatsheet.md

Created 6 years ago

Selenium Webdriver CheatSheet

 [selenium-webdriver-cheatsheet.md](#)

API workthouth

1. Open a browser

```
# start an instance of firefox with selenium-webdriver
driver = Selenium.WebDriver.for(:firefox)
# :chrome -> chrome
# :ie      -> iexplore
```

• Go to a specified URL

```
driver.get 'http://google.com'
driver.navigate.to 'http://google.com'
```

NOTE -- the WebDriver may not wait for the page to load, you'd better using explicit and implicit waits.

• Locating Elements

○ find_element -- Find the first element matching the given arguments.

○ find_elements -- Find all elements matching the given arguments

○ By ID

```
# example html
# <input id="q">...</input>

element = driver.find_element(:id, "q")
```

○ By Class Name

```
# example html
# <div class="highlight-java" style="display: none;">...</div>

element = driver.find_element(:class, 'highlight-java')
# or
element = driver.find_element(:class_name, 'highlight-java')
```

○ By Tag Name

```
# example html
# <div class="highlight-java" style="display: none;">...</div>

element = driver.find_element(:tag_name, 'div')
```

○ By Name

```
# example html
# <input id="q" name='search' type='text'>...</input>

element = driver.find_element(:name, 'search')
```

○ By Link Text

```
# example html
# <a href="http://www.google.com/search?q=cheese">cheese</a>

element = driver.find_element(:link, 'cheese')
# or
element = driver.find_element(:link_text, 'cheese')
```

○ By Partial Link Text

```
# example html
# <a href="http://www.google.com/search?q=cheese">search for cheese</a>
element = driver.find_element(:partial_link_text, 'cheese')
```

○ By XPath

```
# example html
# <ul class="dropdown-menu">
#   <li><a href="/login/form">Login</a></li>
#   <li><a href="/logout">Logout</a></li>
# </ul>

element = driver.find_element(:xpath, '//a[@href="/logout"]')
```

■ NOTE -- When using Element#find_element with :xpath, be aware that,

- webdriver follows standard conventions: a search prefixed with "/" will search the entire document, not just the children of this current node.
- Use "/" to limit your search to the children of the receiving Element.

○ By CSS Selector

```
# example html
# <div id="food">
#   <span class="dairy">milk</span>
#   <span class="dairy aged">cheese</span>
# </div>

element = driver.find_element(:css, '#food span.dairy')
```

● Element's operation

○ Button/Link/Image

```
driver.find_element(:id, 'BUTTON_ID').click
```

○ Text Filed

```
# input some text
driver.find_element(:id, 'TextArea').send_keys 'InputText'
# send keyboard actions, press `ctrl+a` & `backspace`
```

```
driver.findElement(:id, 'TextArea').sendKeys [:control, 'a'], :backspace
```

- Checkbox/Radio

```
# check if it is selected
driver.findElement(:id, 'CheckBox').selected?
# select the element
driver.findElement(:id, 'CheckBox').click
# deselect the element
driver.findElement(:id, 'CheckBox').clear
```

- Select

```
# get the select element
select = driver.findElement(:tag_name, "select")
# get all the options for this element
all_options = select.findElements(:tag_name, "option")
# select the options
all_options.each do |option|
  puts "Value is: " + option.attribute("value")
  option.click
end

# another way is using the Select class after selenium-webdriver 2.14
element = driver.findElement(:tag_name, "select")
select = Selenium::WebDriver::Support::Select.new(element)
select.deselect_all()
select.select_by(:text, "Edam")
```

- visibility

```
driver.findElement(:id, 'Element').displayed?
```

- get text

```
driver.findElement(:id, 'Element').text
```

- get attribute

```
driver.findElement(:id, 'Element').attribute('class')
```

- Driver's operation

- execute javascript

```
driver.execute_script("return window.location.pathname")
```

- wait for a specific element to show up

```
# set the timeout to 10 seconds
wait = Selenium::WebDriver::Wait.new(:timeout => 10)
# wait 10 seconds until the element appear
wait.until { driver.findElement(:id => "foo") }
```

- implicit waits

An implicit wait is to tell WebDriver to poll the DOM for a certain amount of time when trying to find an element or elements if they are not immediately available

```
driver = Selenium.WebDriver.for :firefox
# set the timeout for implicit waits as 10 seconds
driver.manage.timeouts.implicit_wait = 10

driver.get "http://somedomain/url_that_delays_loading"
element = driver.find_element(:id => "some-dynamic-element")
```

- switch between frames

```
# switch to a frame
driver.switch_to.frame "some-frame" # name or id
driver.switch_to.frame driver.find_element(:id, 'some-frame') # frame element

# switch back to the main document
driver.switch_to.default_content
```

- switch between windows

```
driver.window_handles.each do |handle|
  driver.switch_to.window handle
end
```

- handle javascript dialog

```
# get the alert
a = driver.switch_to.alert
# operation on the alert
if a.text == 'A value you are looking for'
  a.dismiss
else
  a.accept
end
```

- Cookies

- Delete cookies

```
# You can delete cookies in 2 ways
# By name
driver.manage.delete_cookie("CookieName")
# Or all of them
driver.manage.delete_all_cookies
```



tit commented on Nov 5, 2013

My way for Select.

```
def select options
  # :class, :class_name, :id, :link_text, :link, :partial_link_text, :name, :tag_name, :xpath
  # :xpath by default
  how = options[:how] || :xpath
```

```
# example '/html/body/select'
what = options[:what]

# random select if nil
value = options[:value]

wait = options[:wait] || Selenium::WebDriver::Wait.new
driver = options[:driver]

wait.until { do
  select = driver.find_element :how, what
  select.find_elements :tag_name, 'option'
end

select = driver.find_element :how, what
options = select.find_elements :tag_name, 'option'
random = options.sample.attribute 'value'
value = value || random

options.each { do |option|
  option.click if value == random
end
end
end
```



The-canary48 commented on Oct 14, 2015

Hi,
I just want to put it simple

Requirements

select the desired text in a paragraph using selenium



rameshdh2009 commented on Oct 29, 2015

Create [update](#)
Selenium web driver using Java, How to click on create and update. Please help me .



michael47265 commented on Nov 15, 2015

Great cheatsheet! Just a couple of minor issues I came across:
driver.find_element(id, 'BUTTON_ID').click '#' missing after _ID
driver.find_element(id, 'TextArea').send_keys [:control, 'a'], :backspace #control should be control



masterkrang commented on Oct 8, 2017

just wanted you to know i think you're cool



FernandoZnga commented on May 29

Hello, Do you know how to count the elements on a ul element? from a table I can use len but won't work on ul element



BrockTanium commented on Aug 23

so great this is amaze. thanks much